

FIG. 1

Pseudo Present waveform

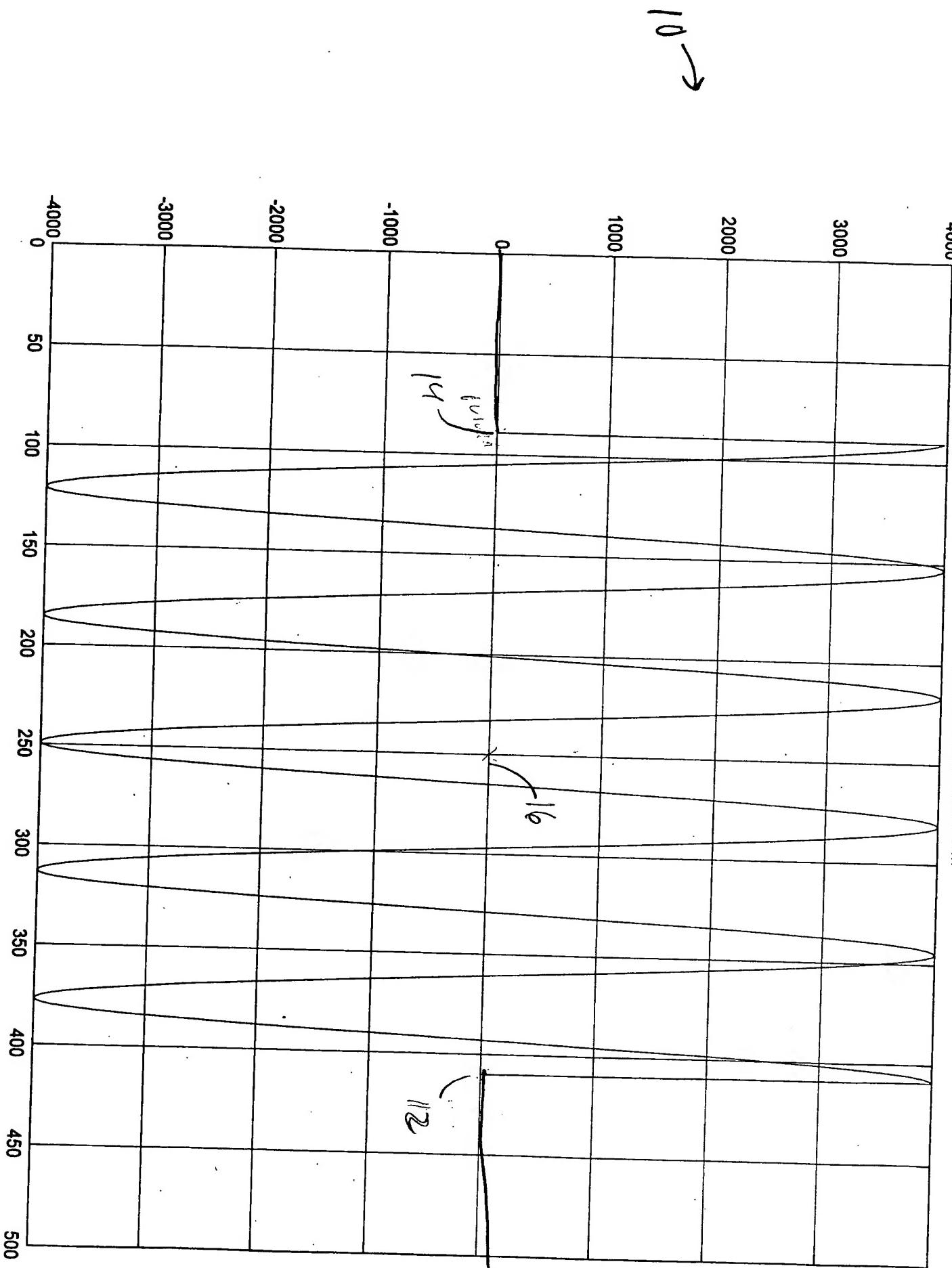


FIG. 2

4000

3000

2000

1000

0

Present minus Past ONLY

20

10

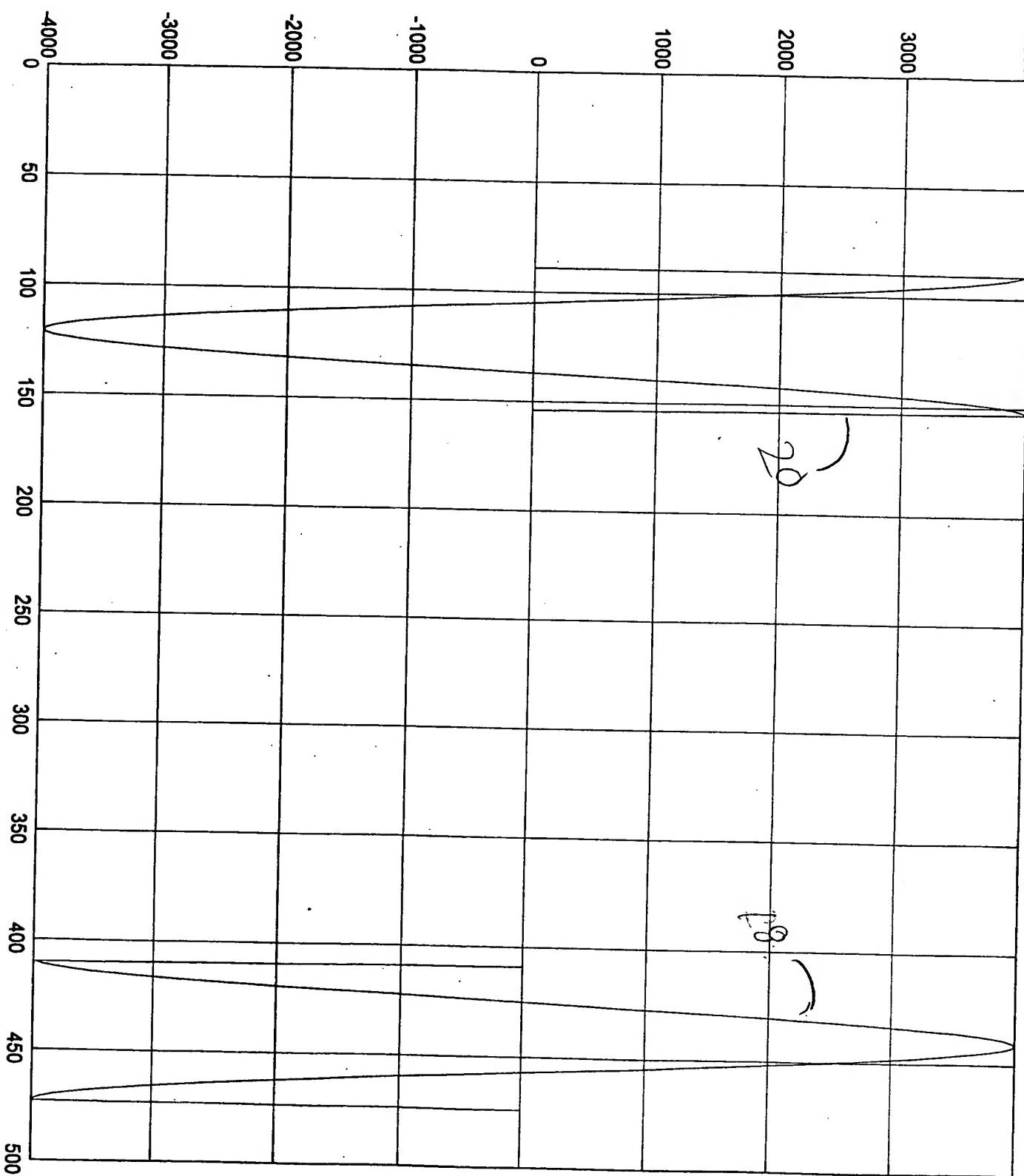


FIG. 3

4000

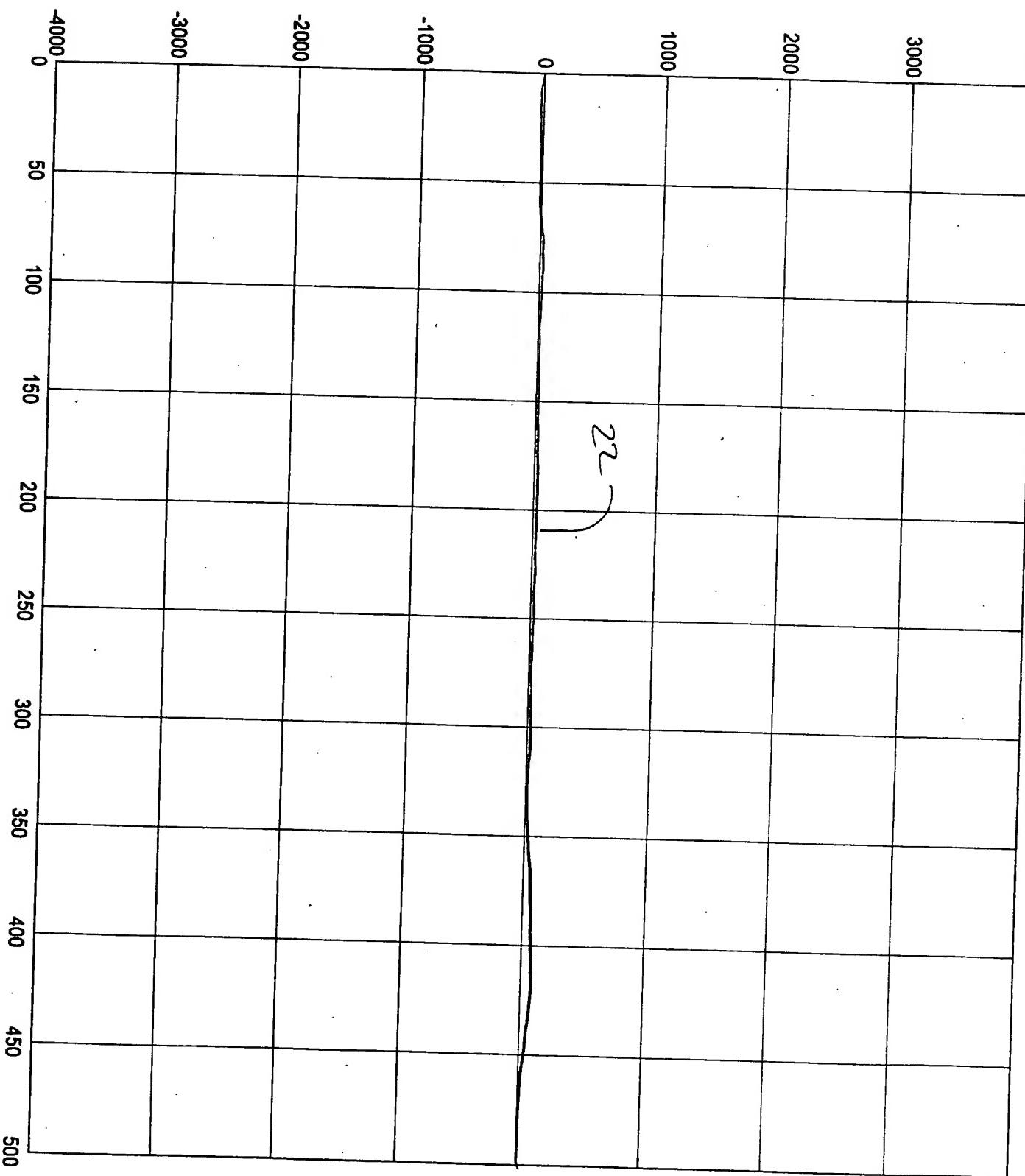
3000

2000

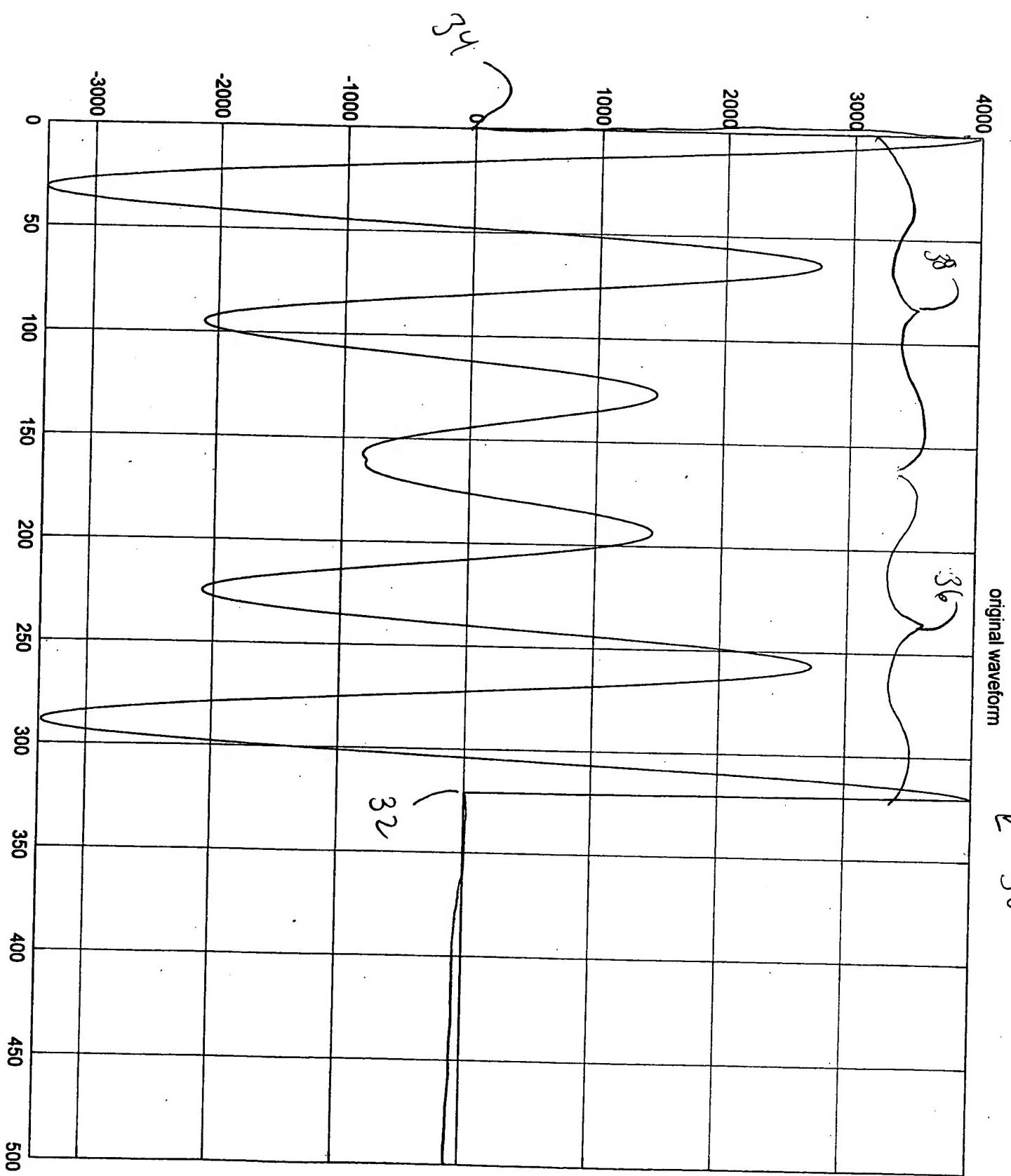
1000

0

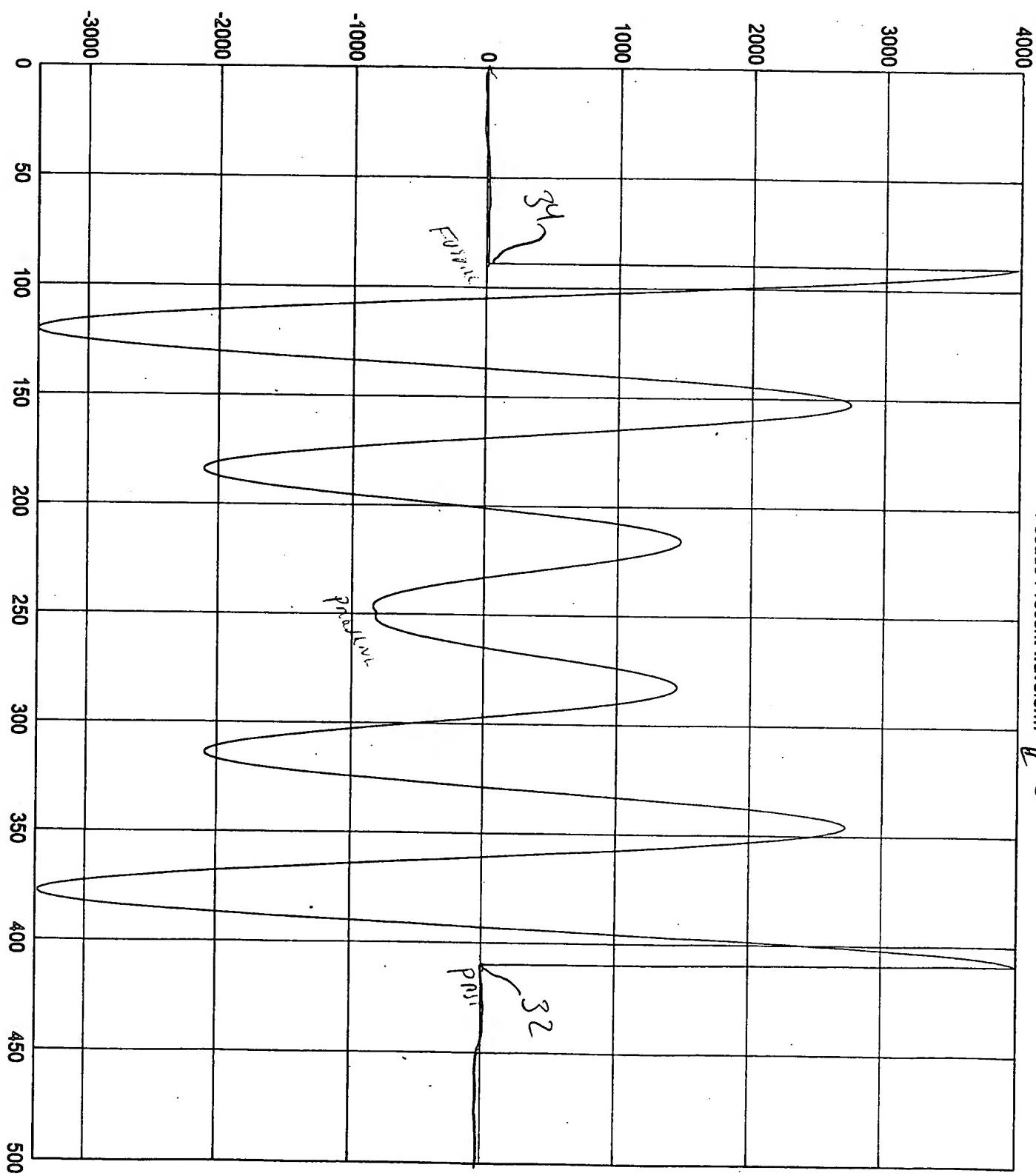
Output due to improvements through causal switching only



FIC₇



Pseudo Present waveform 136



F16.6

4000

Present minus Past ONLY

3000

2000

1000

0

-1000

-2000

-3000

0

50

100

150

200

250

300

350

400

450

500

F16.7

Output due to improvements through causal switching only

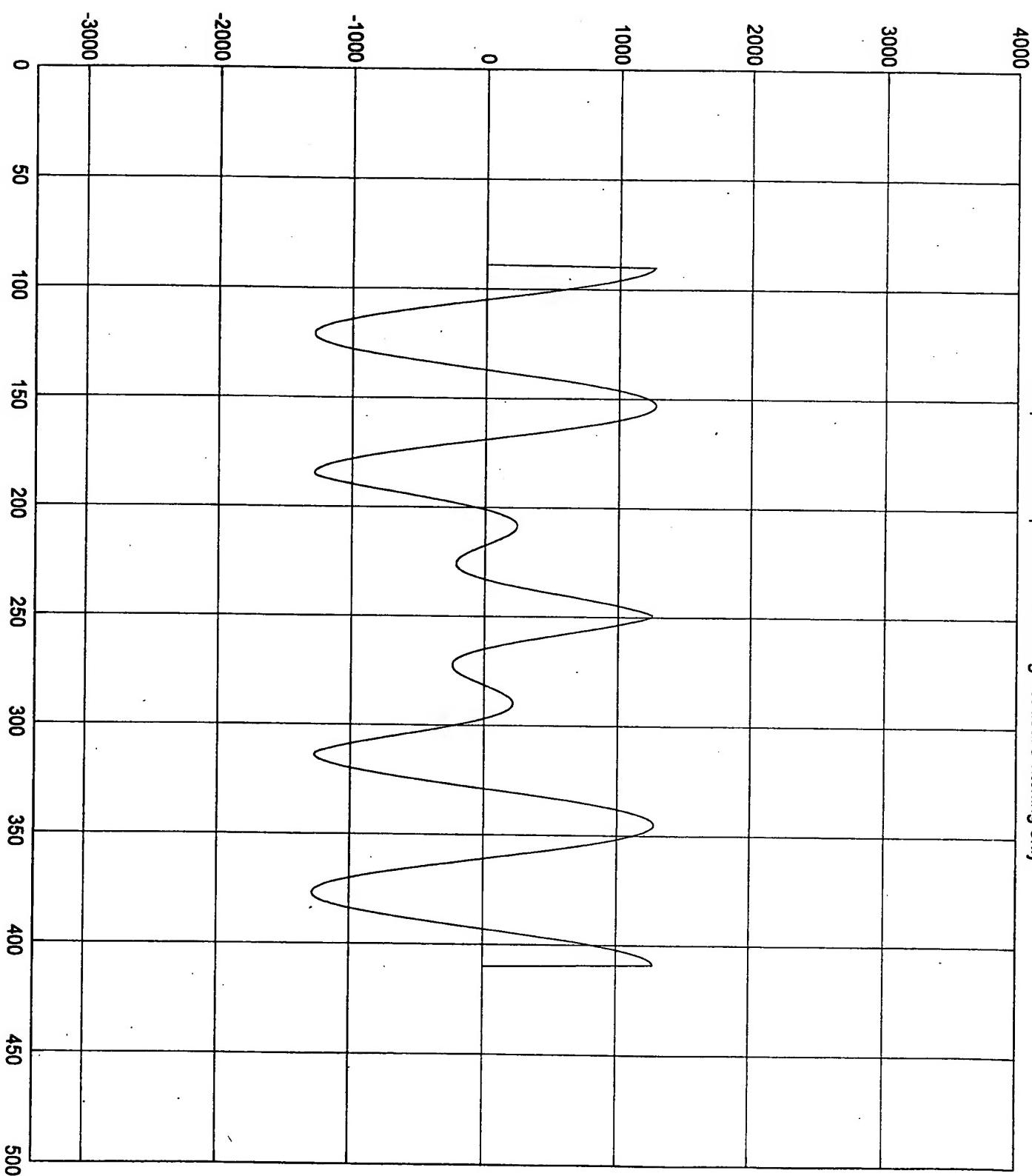


Fig. 8

Points Processed = 73 PCntrSwitch = 17 CausalSwitchEnabled PastPoint = 0 PresentPoint = 0 FuturePoint = 0

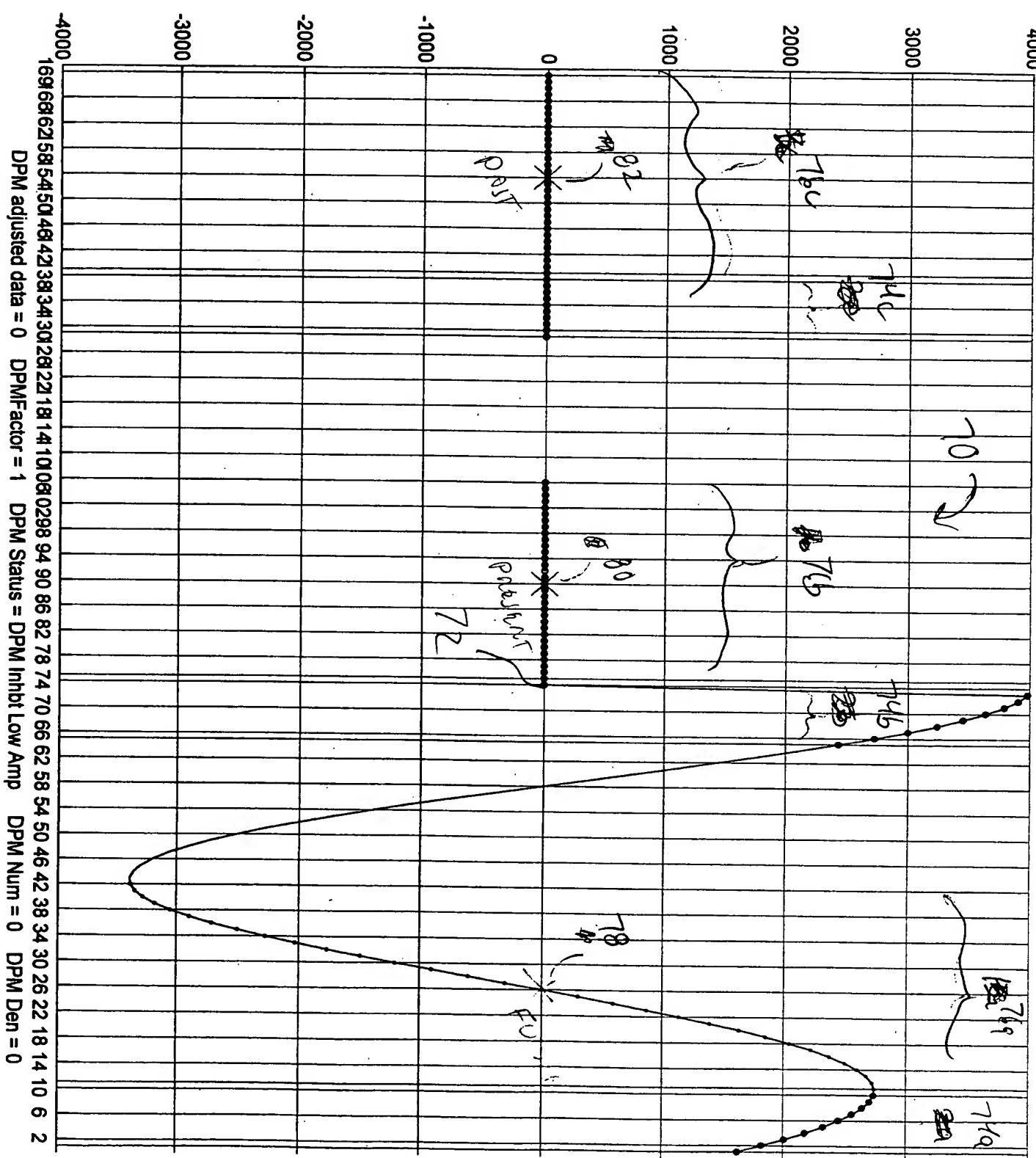
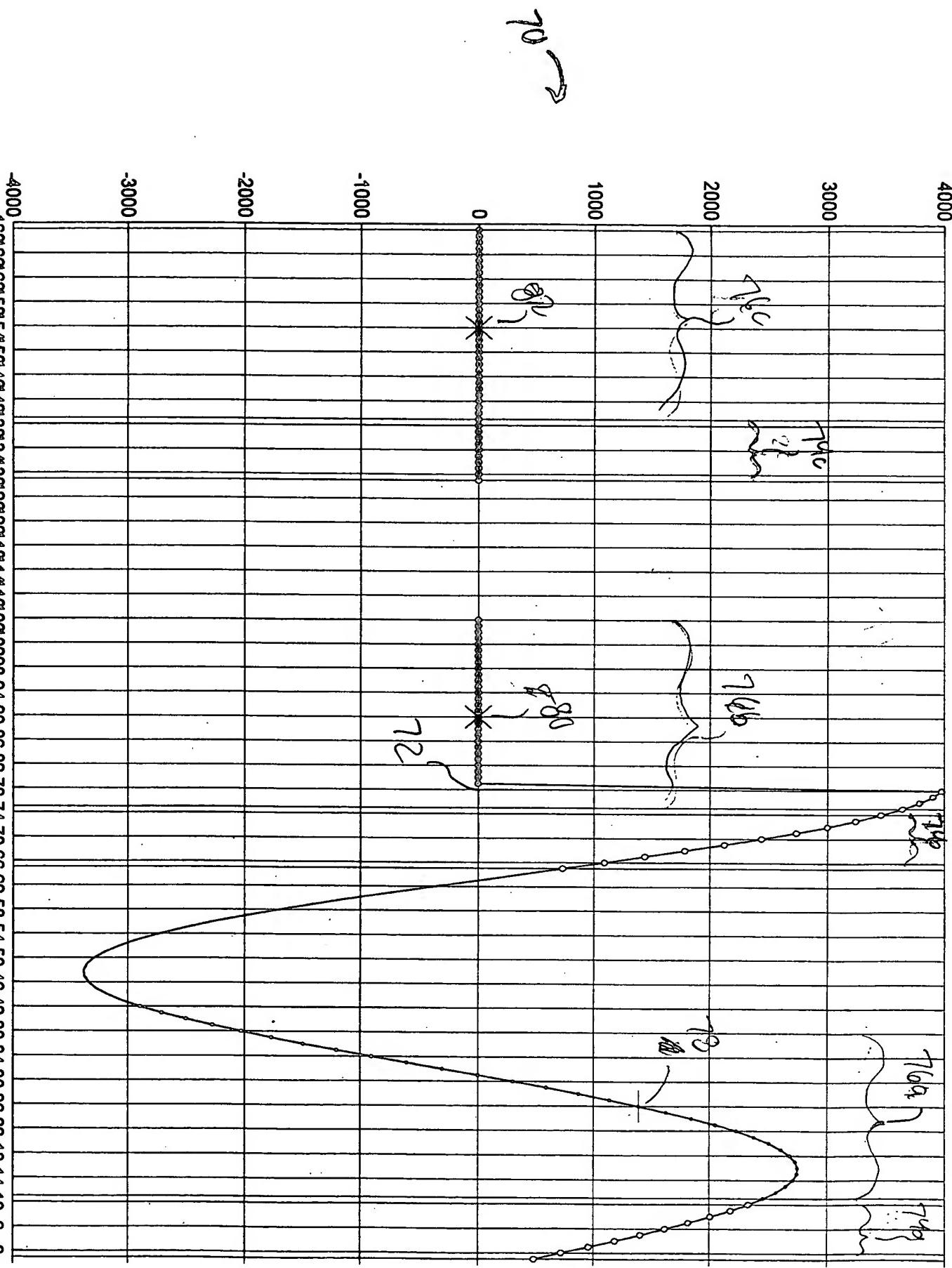


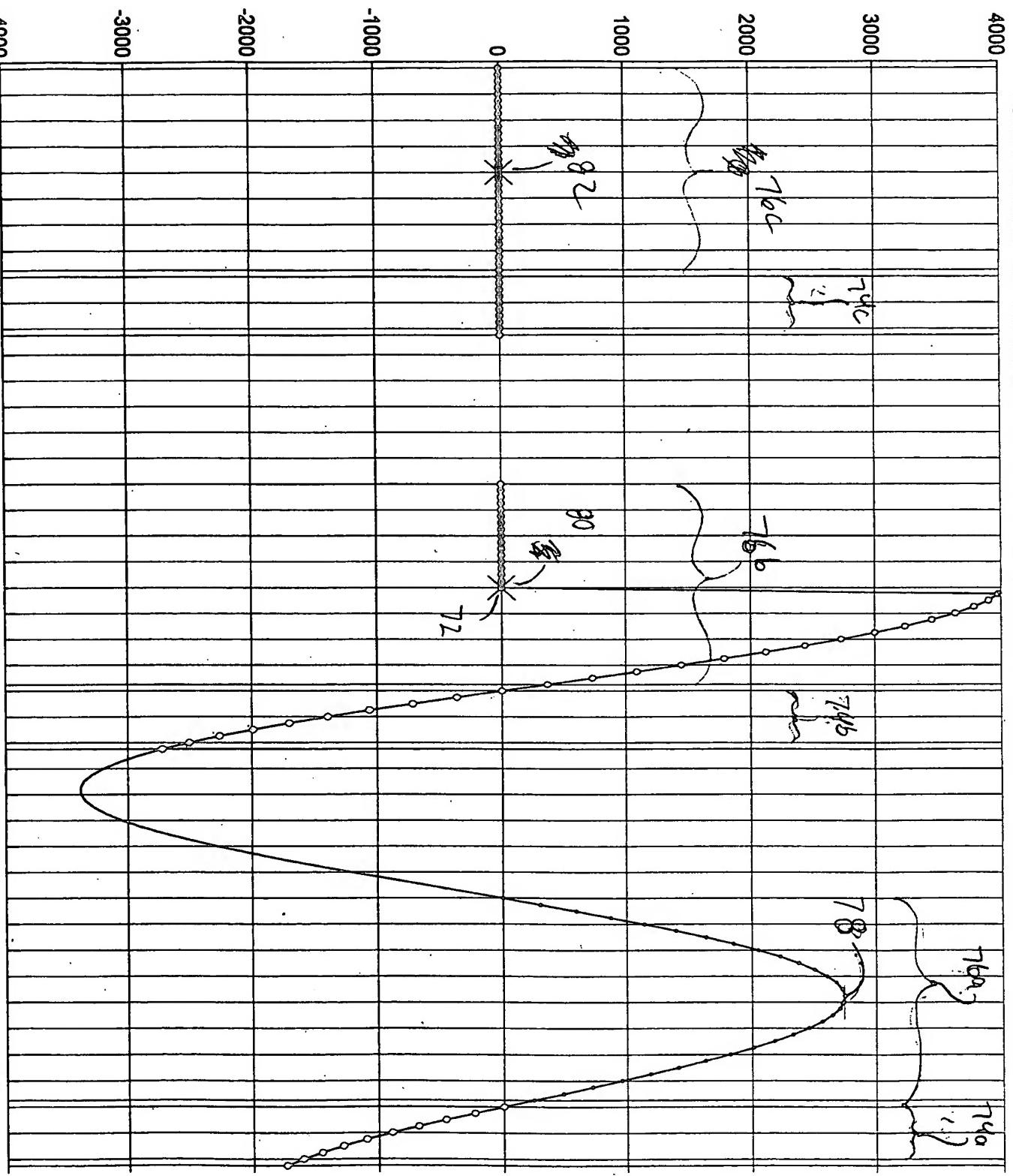
FIG. 9

Points Processed = 78 PtCntSwitch = 12 CausalSwitchLockedOut PastPoint = 0 PresentPoint = 0 FuturePoint = 1395



-4000 16916816258154501481423834302812211814101002989490868278747066625854504642383430262218141062 DPM adjusted data = 0 DPMFactor = 1 DPM Status = Num (Prsnl) frozen from c switch DPM Inhibit LowAmp DPM Num = 0 DPM Den = 0

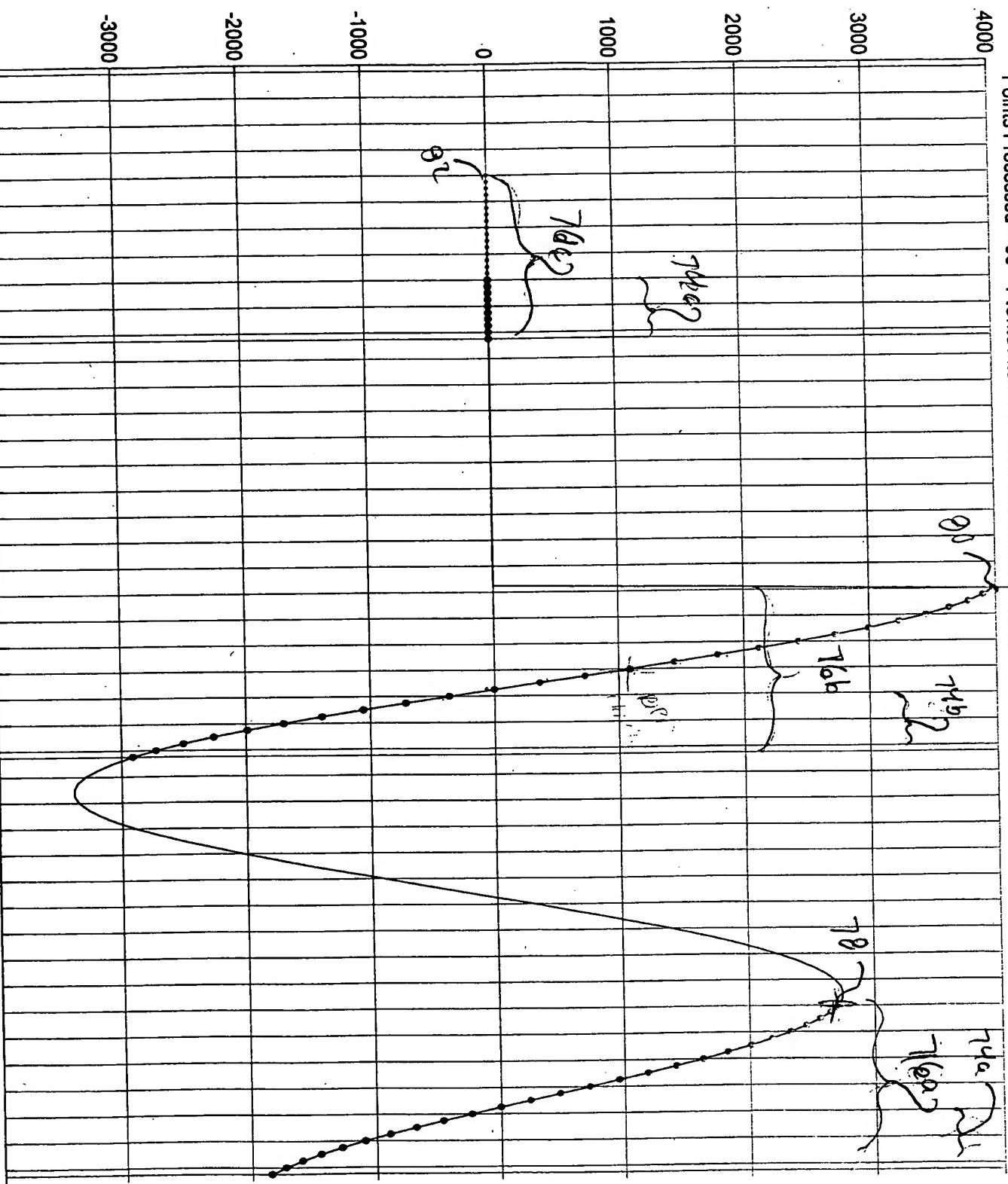
Points Processed = 89 PicntSwitch = 1 CausalSwitchLockedOut PastPoint = 0 PresentPoint = 0 FuturePoint = 2740



16g 66 62 58 54 50 46 42 38 34 30 26 22 18 14 10 6 2
DPM adjusted data = 0 DPMFactor = 1 DPM Status = Num (Prsnt) frozen from c switch DPM Inhibit Low Amp
DPM Num = 0 DPM Den = 0

F16.11

Points Processed = 90 PitchSwitch = 0 CausalSwitchLockedOut PastPoint = 0 PresentPoint = 3980 FuturePoint = 2706



-4000
169 668 621 58 54 150 46 42 38 34 30 26 22 18 14 10 6 2

DPM adjusted data = 4089 DPMFactor = 1.5113 DPM Status = DPM span & center adjusting DPM Num = 55309 DPM Den = 36598

F 1G. 12

Points Processed = 93 PicntSwitch = -3 CausalSwitchLockedOut PastPoint = 0 PresentPoint = 3640 FuturePoint = 2457

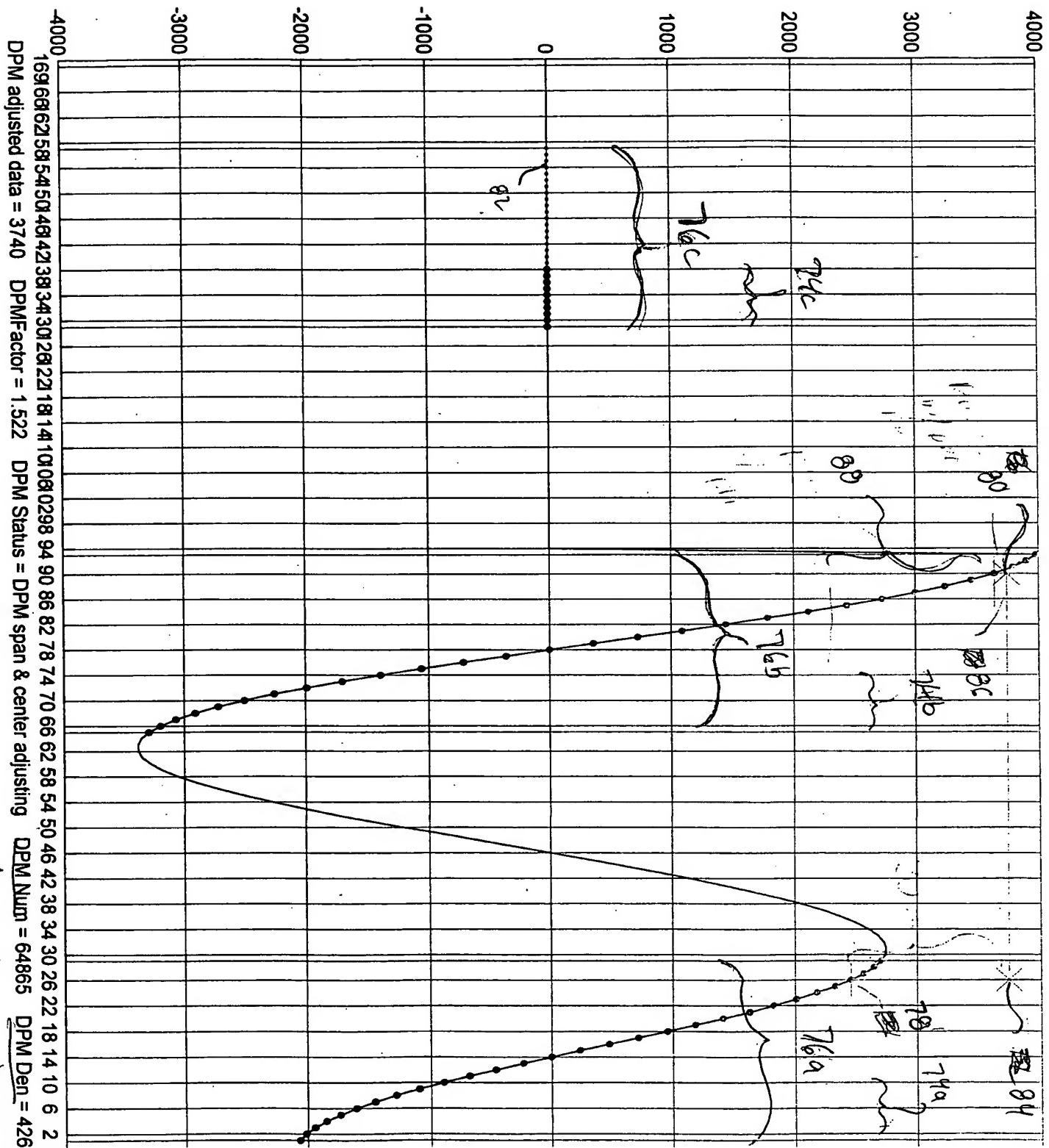
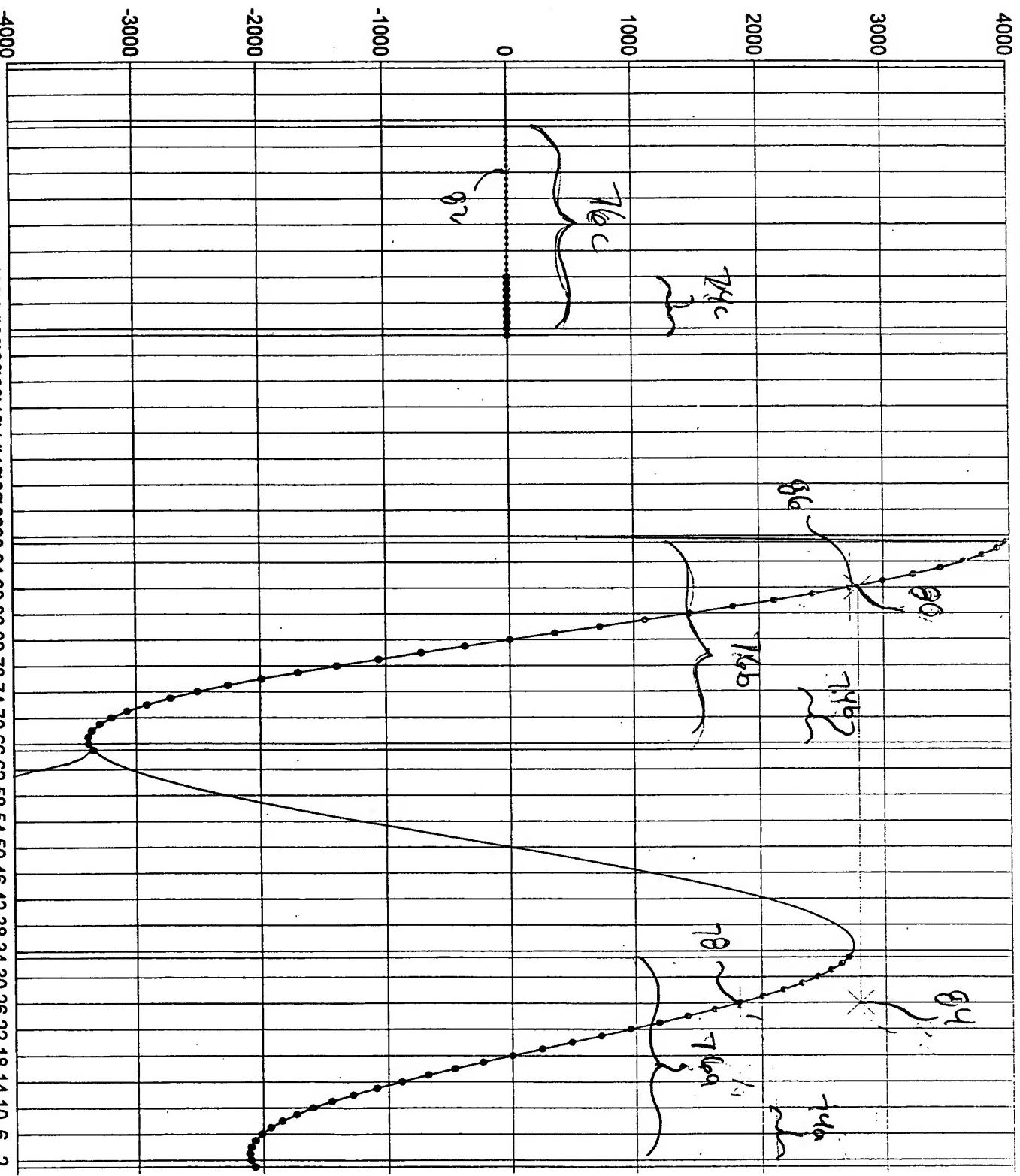


FIG. 12

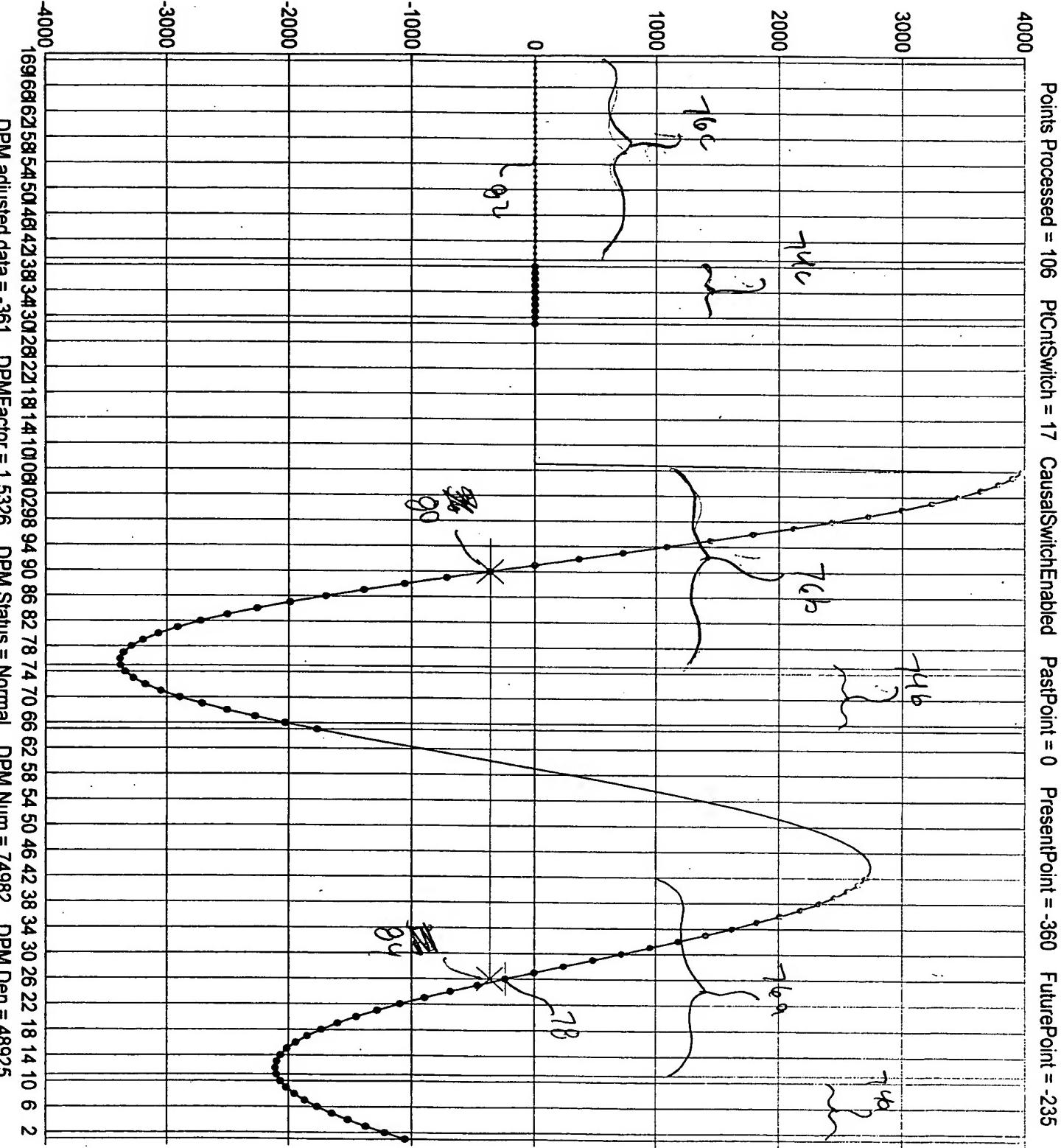
↙ NUL of PITS ↘ PITS ↙ NUL of PITS ↘ PITS

Points Processed = 97 PtCnISwitch = 7 CausalSwitchLockedOut PastPoint = 0 PresentPoint = 2729 FuturePoint = 1824



169 681 625 815 450 481 421 381 341 302 281 221 181 141 100 81 0298 94 90 86 82 78 74 70 66 62 58 54 50 46 42 38 34 30 26 22 18 14 10 6 2
DPM adjusted data = 2795 DPMFactor = 1.5326 DPM Status = DPM span & center adjusting DPM Num = 74982 DPM Den = 48925

Fig. 14



F15.

Points Processed = 171 PicntSwitch = 17 CausalSwitchEnabled PastPoint = -714 PresentPoint = -464 FuturePoint = -214

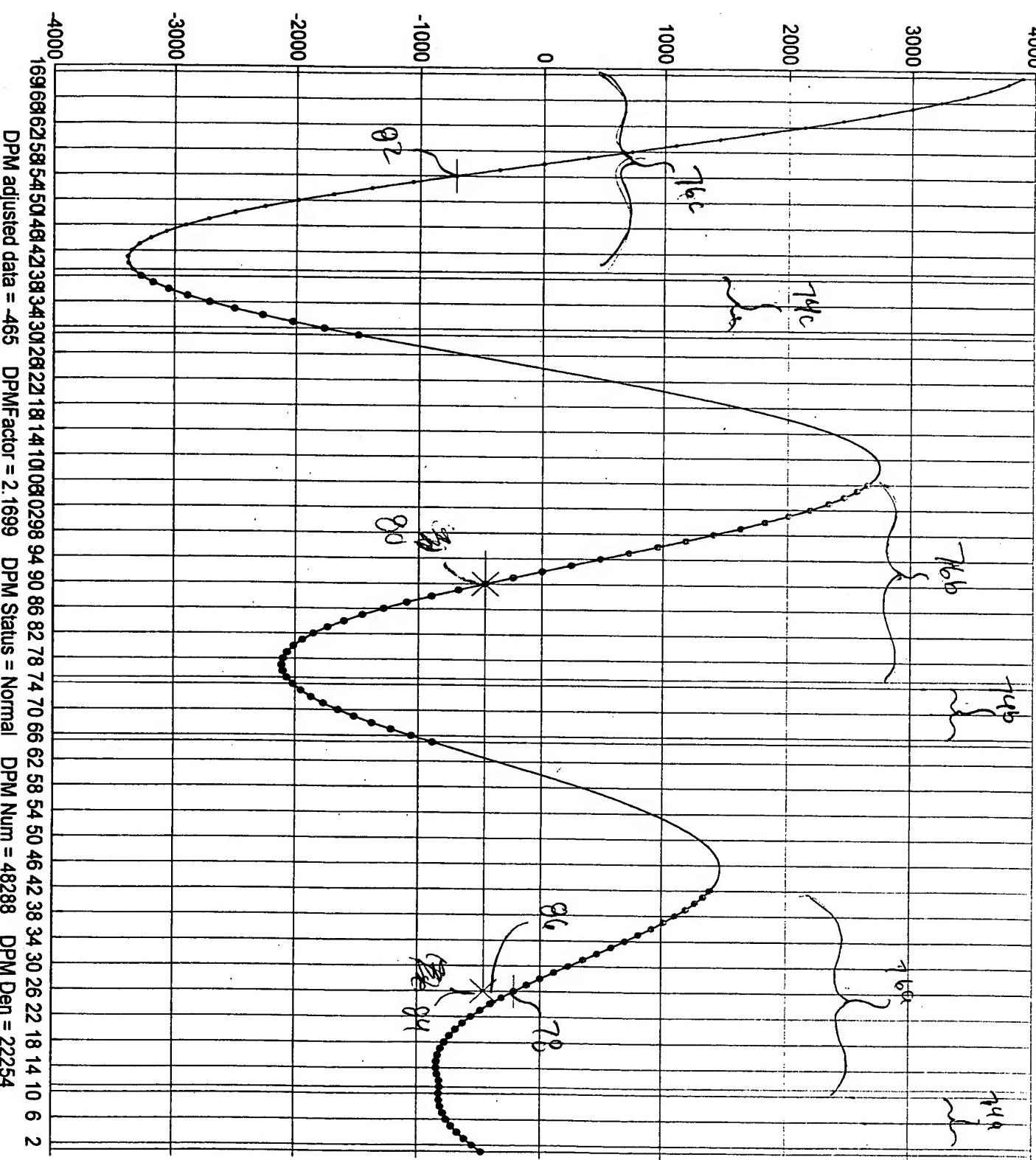
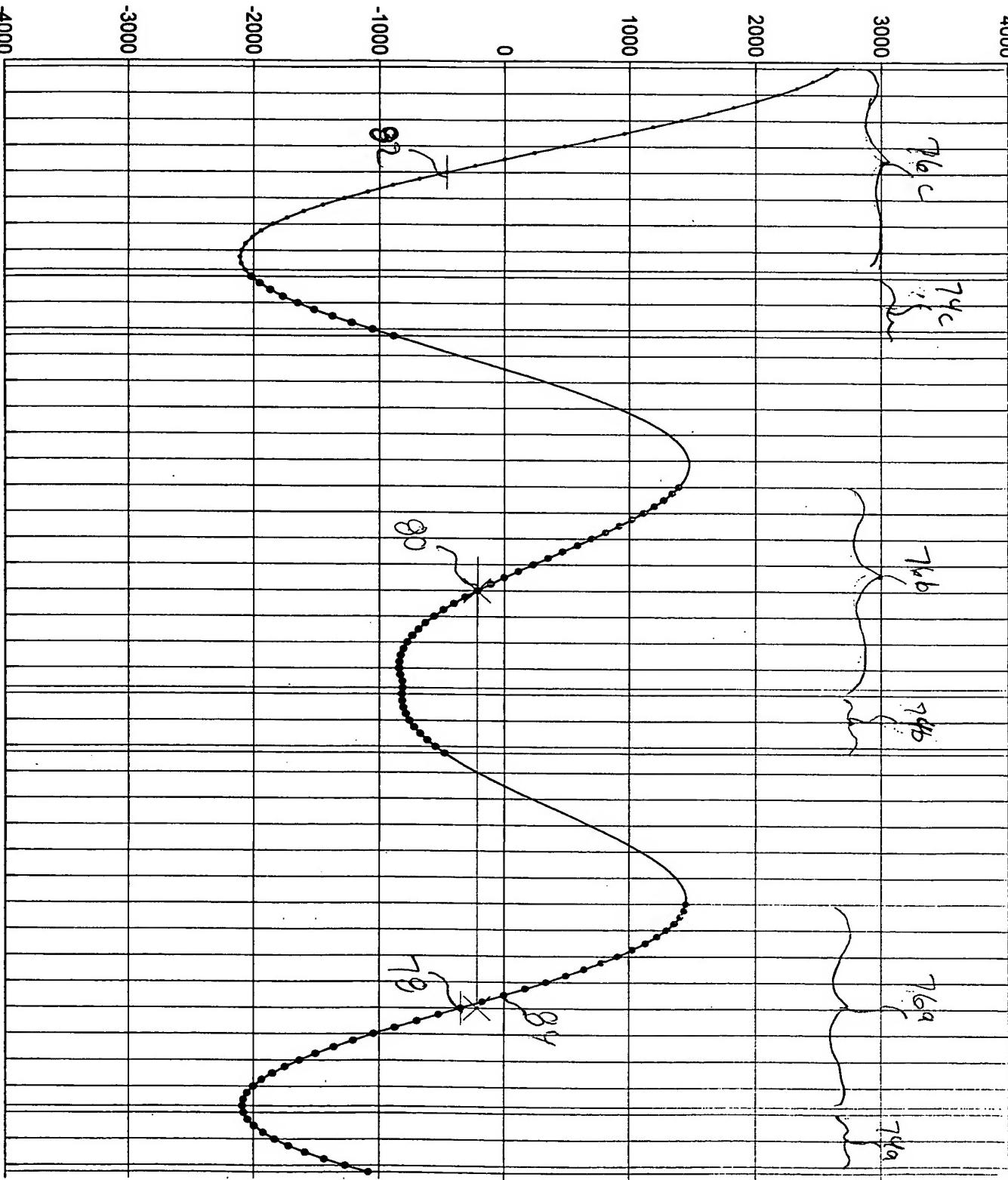


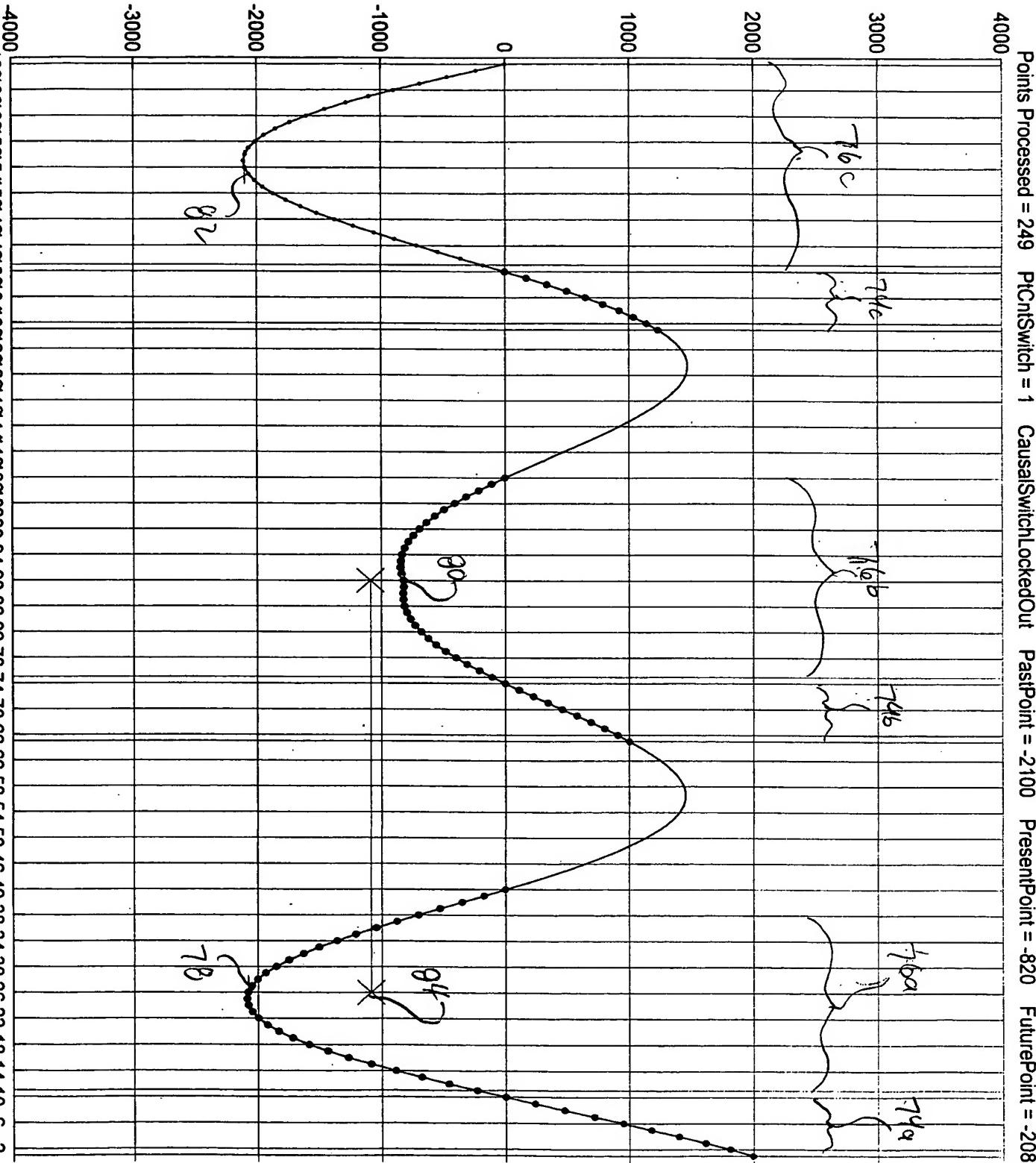
Fig. 16

Points Processed = 235 PtCntSwitch = 15 CausalSwitchLockedOut PastPoint = -464 PresentPoint = -214 FuturePoint = -351



-4000
169 6616215815415014814213834130262218141062
DPM adjusted data = -217 DPMFactor = 0.61591 DPM Status = Den (Future) frozen from c switch DPM Num = 22254 DPM Den = 36132

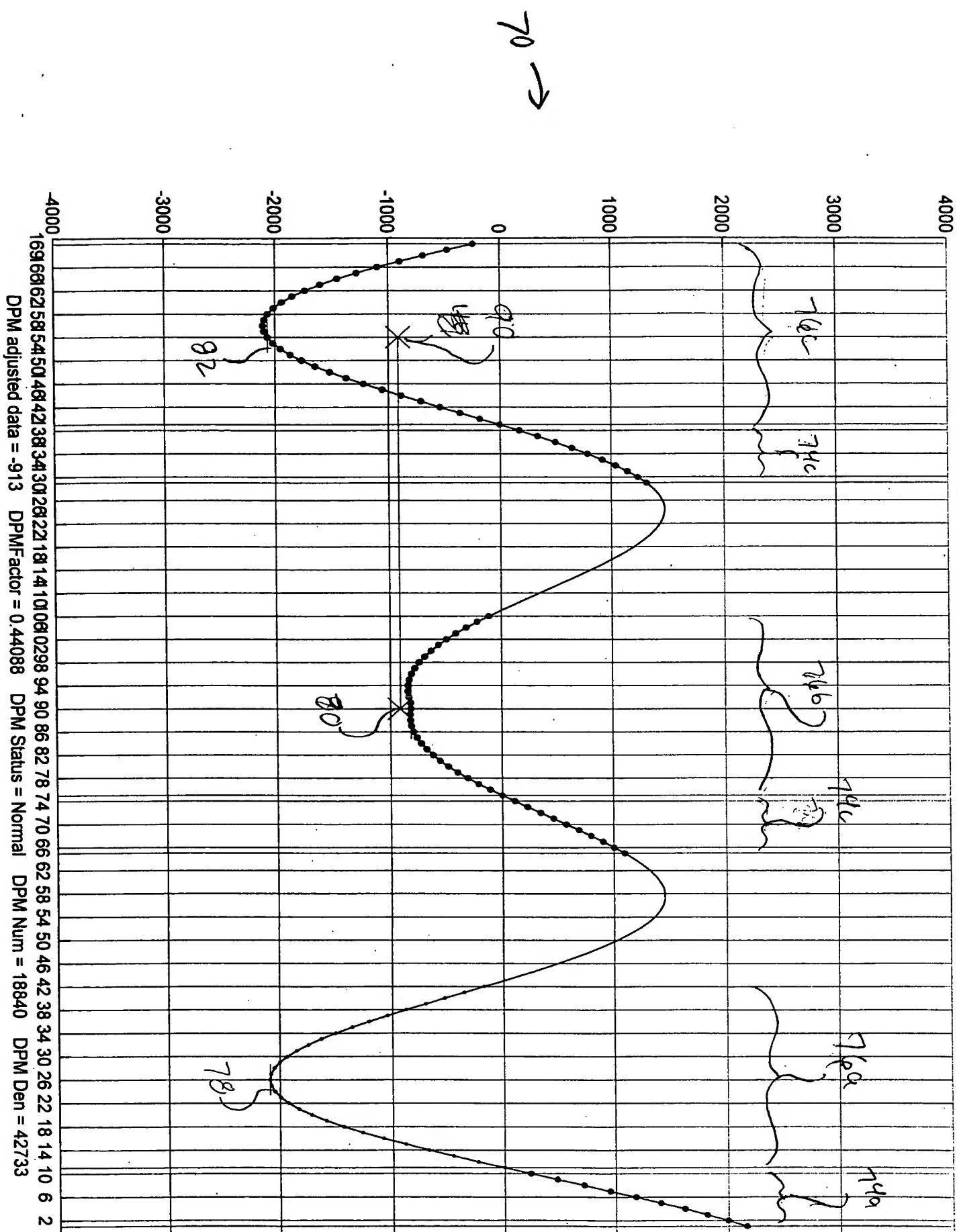
FIG. 17



169666258545014842138343028221814100802989490868278747066625854504642383430262218141062
 DPM adjusted data = -1085 DPMFactor = 0.52142 DPM Status = Den (Future) frozen from c switch DPM Num = 18840 DPM Den = 36132

Fig. 18

Points Processed = 250 PICnItSwitch = 0 CausalSwitchLockedOut PassPoint = -2069 PresentPoint = -2089 FuturePoint = -2089



4000

Points Processed = 265 PICntSwitch = -15 CausalSwitchLockedOut PastPoint = 0 PresentPoint = 0 FuturePoint = 0

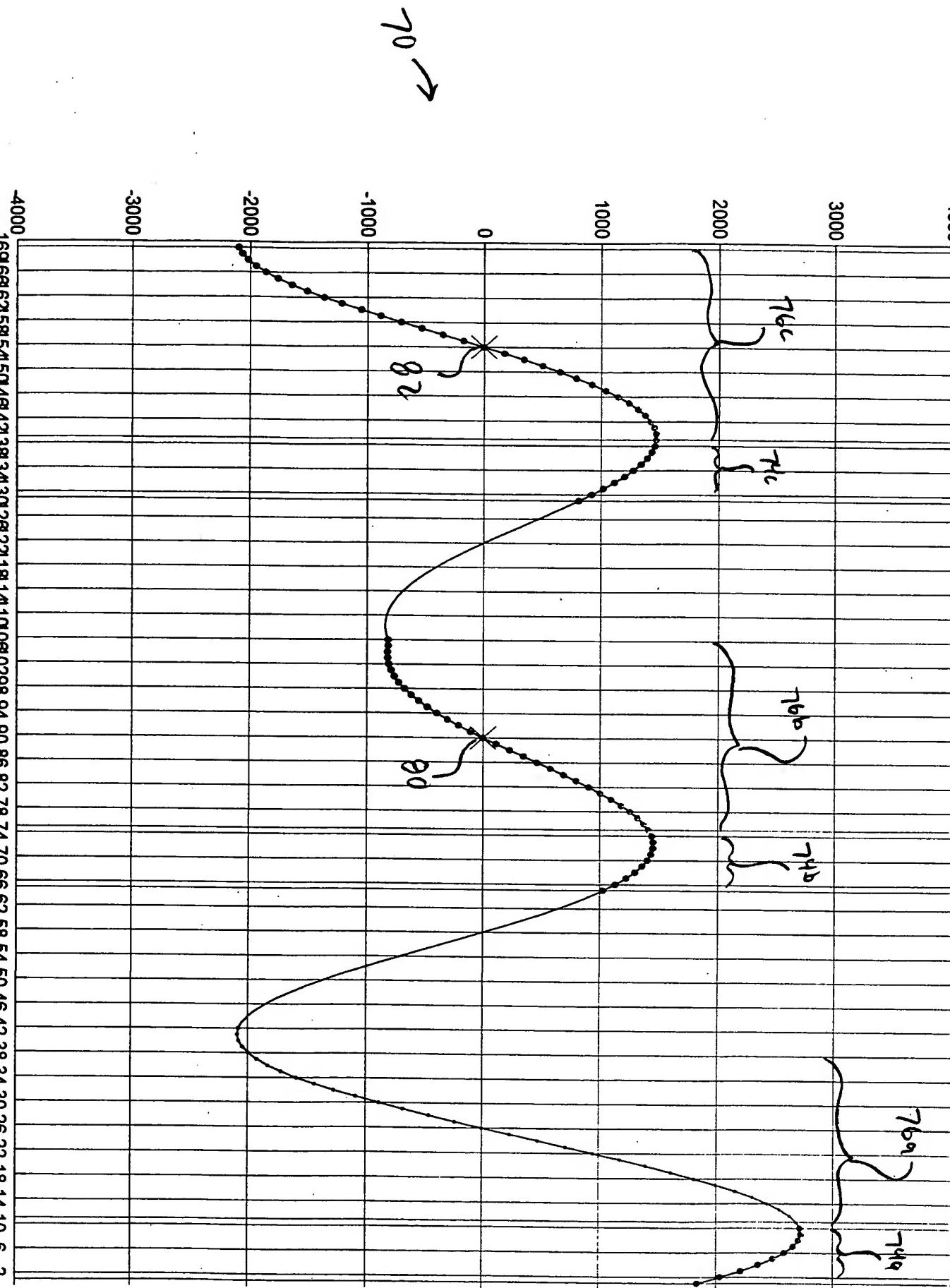
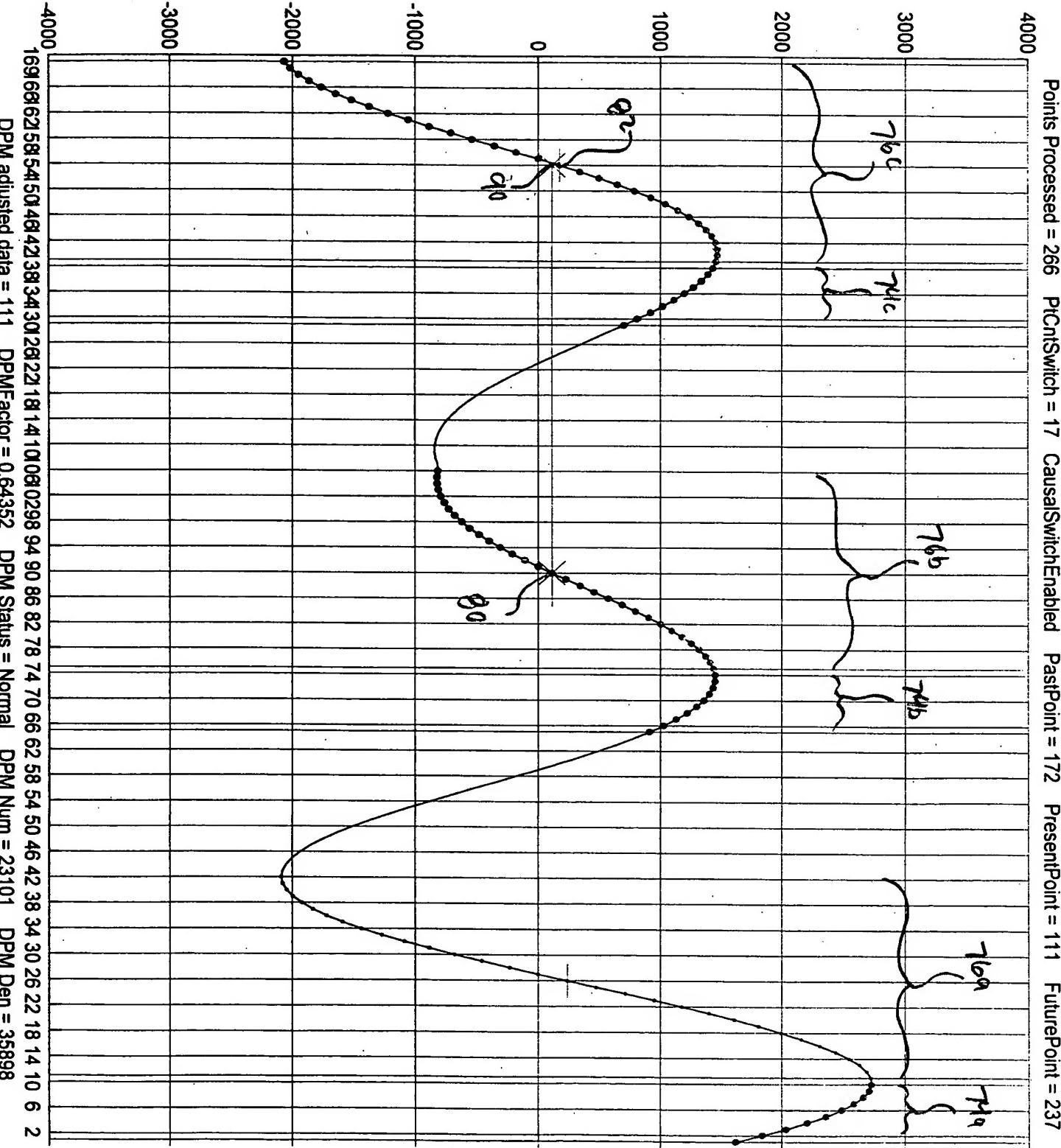


Fig. 20



F / G. 2 /

Points Processed = 336 PICntSwitch = 17 CausalSwitchEnabled PastPoint = 799 PresentPoint = 1611 FuturePoint = 2423

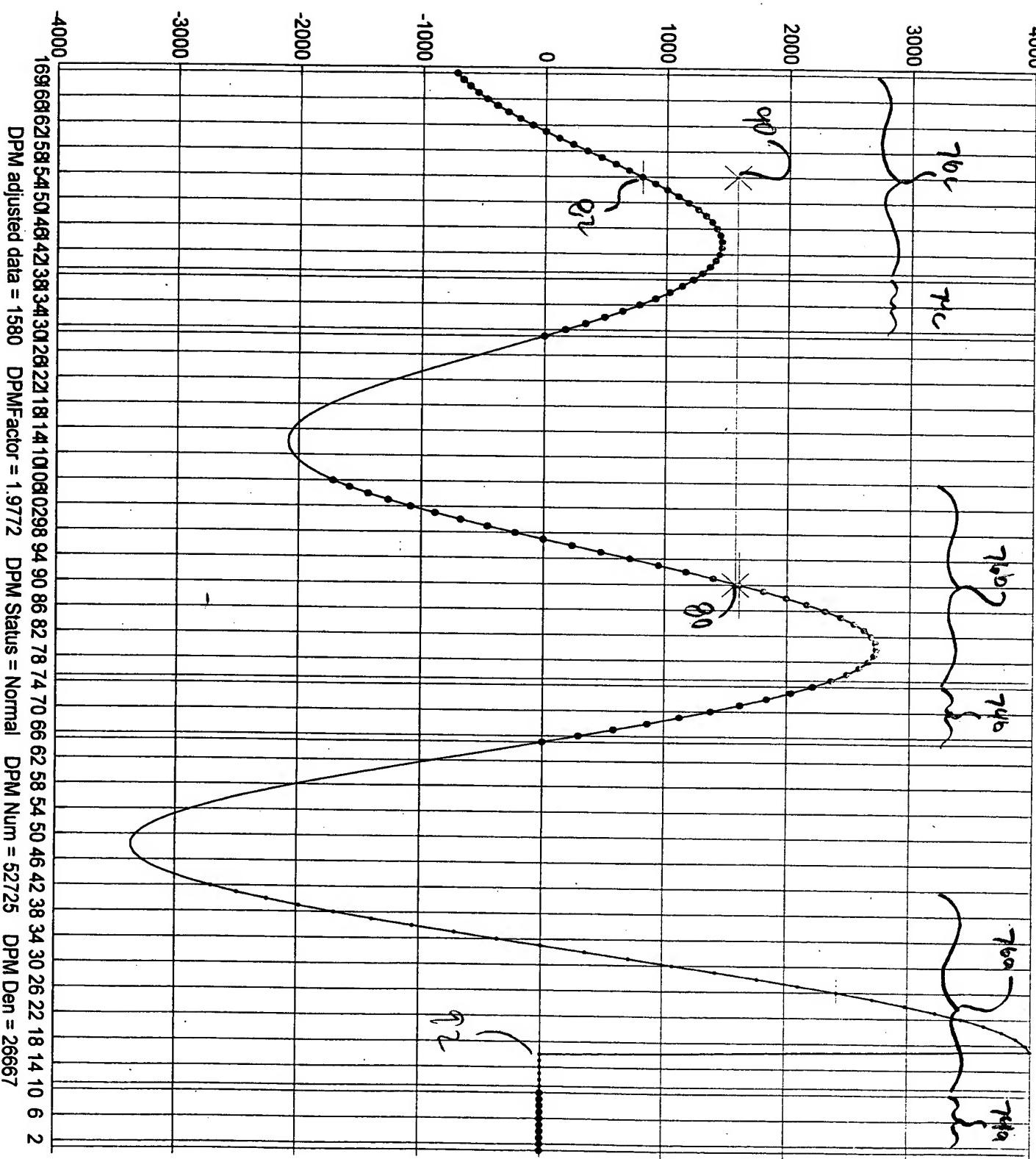


FIG. 22

Points Processed = 394 PtCnSwitch = 16 CausalSwitchLockedOut PastPoint = 237 PresentPoint = 362 FuturePoint = 0

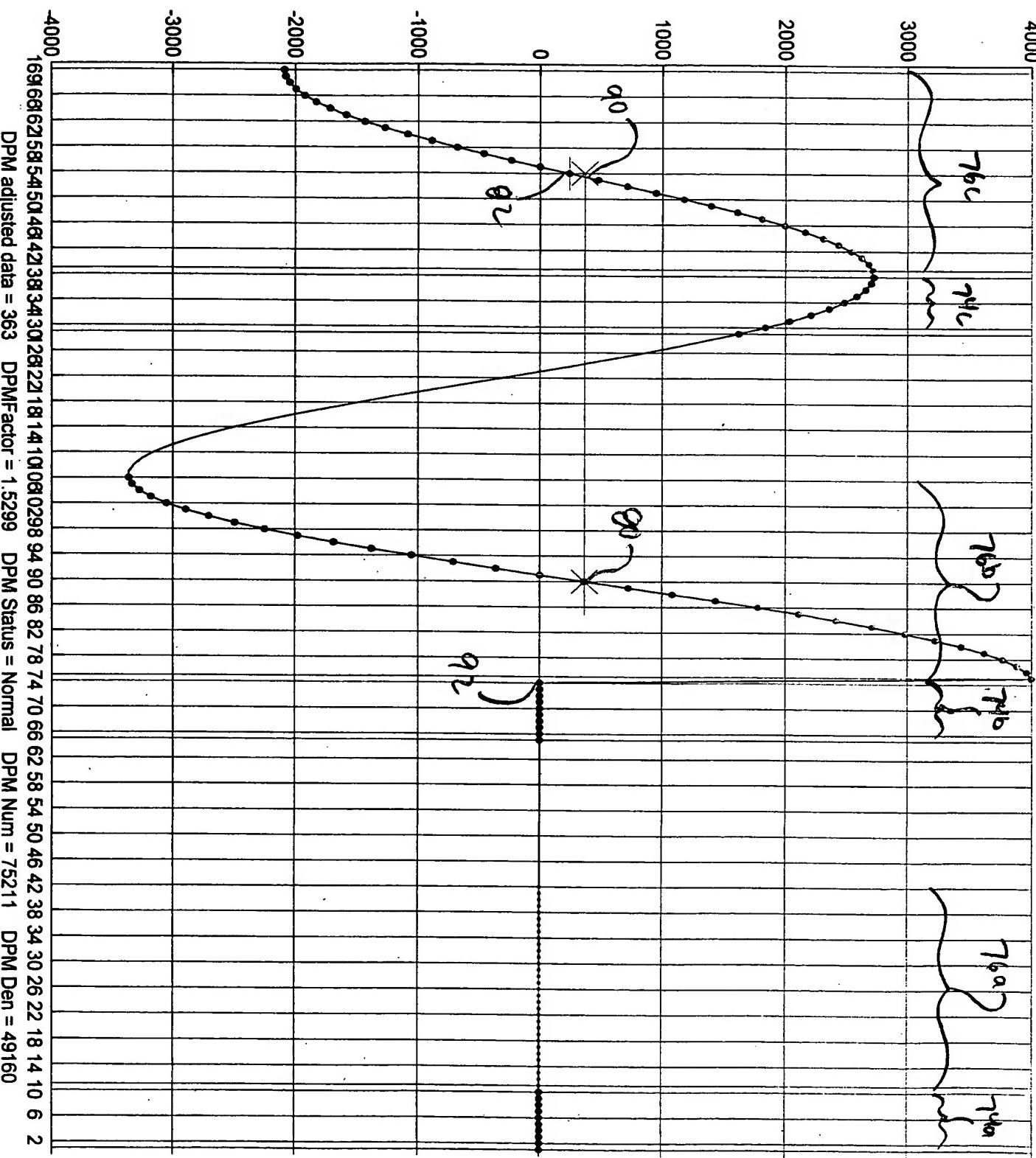
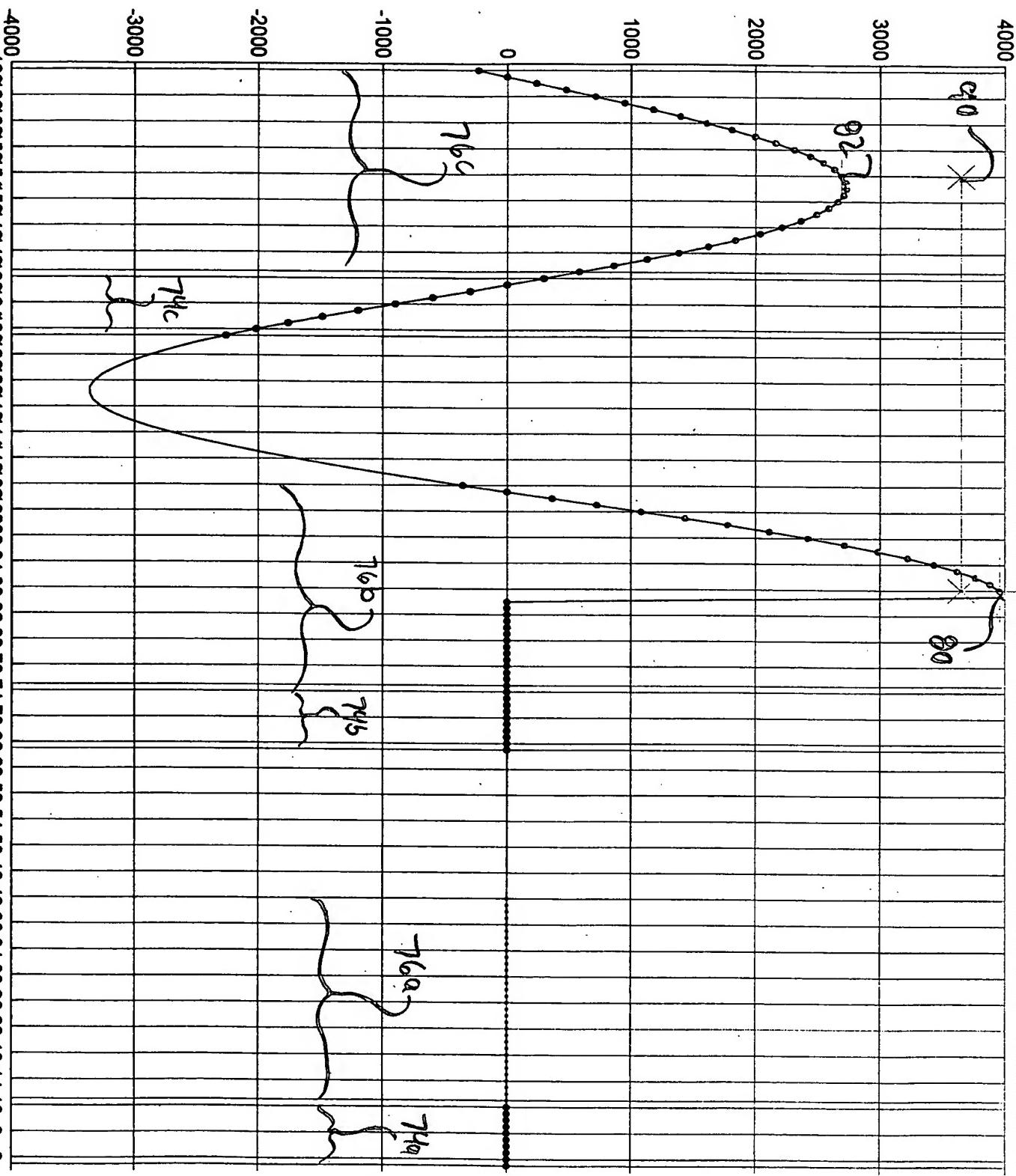


FIG. 23

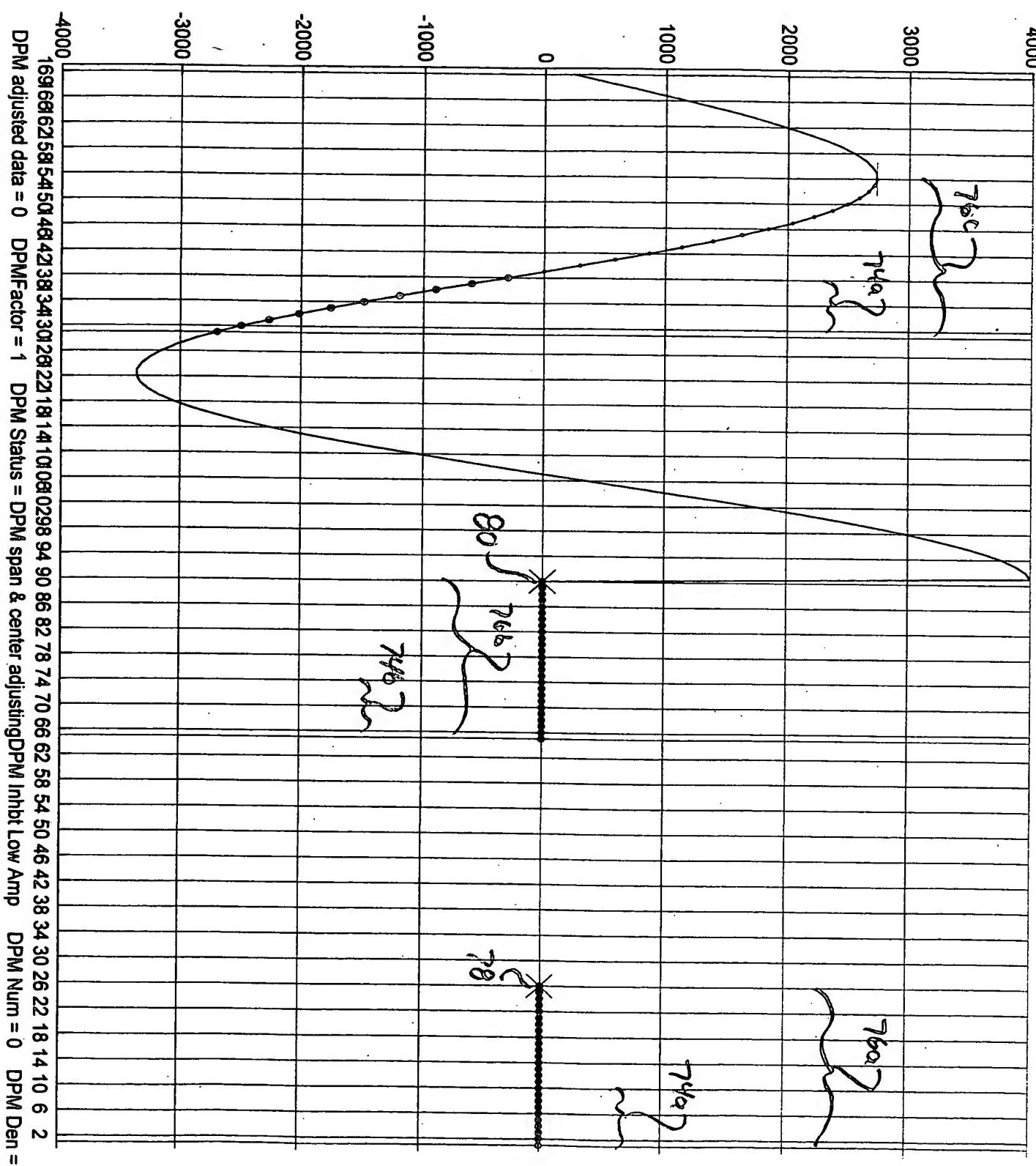
Points Processed = 408 PtCntSwitch = 2 CausalSwitchLockedOut PastPoint = 2686 PresentPoint = 3960 FuturePoint = 0



F16. 24

169 681 621 585 545 504 484 423 383 343 303 282 221 181 141 101 080 0298 94 90 86 82 78 74 70 66 62 58 54 50 46 42 38 34 30 26 22 18 14 10 6 2
DPM adjusted data = 3654 DPMFactor = 1.3603 DPM Status = Num (Prsnt) frozen from c switch DPM Num = 75211 DPM Den = 55291

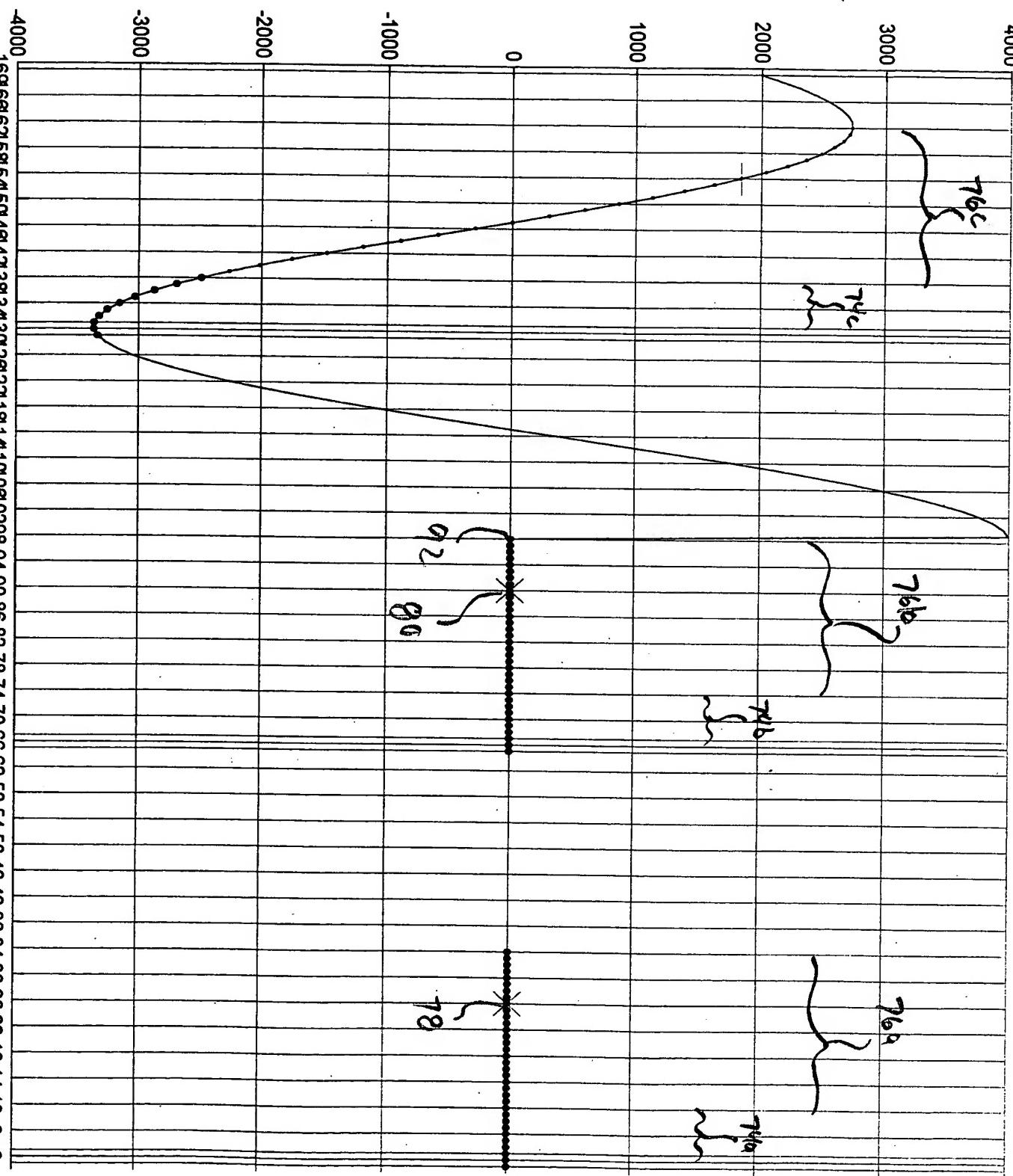
Points Processed = 410 PtCntrSwitch = 0 CausalSwitchLockedOut PastPoint = 2726 PresentPoint = 0 FuturePoint = 0



F/G. 25

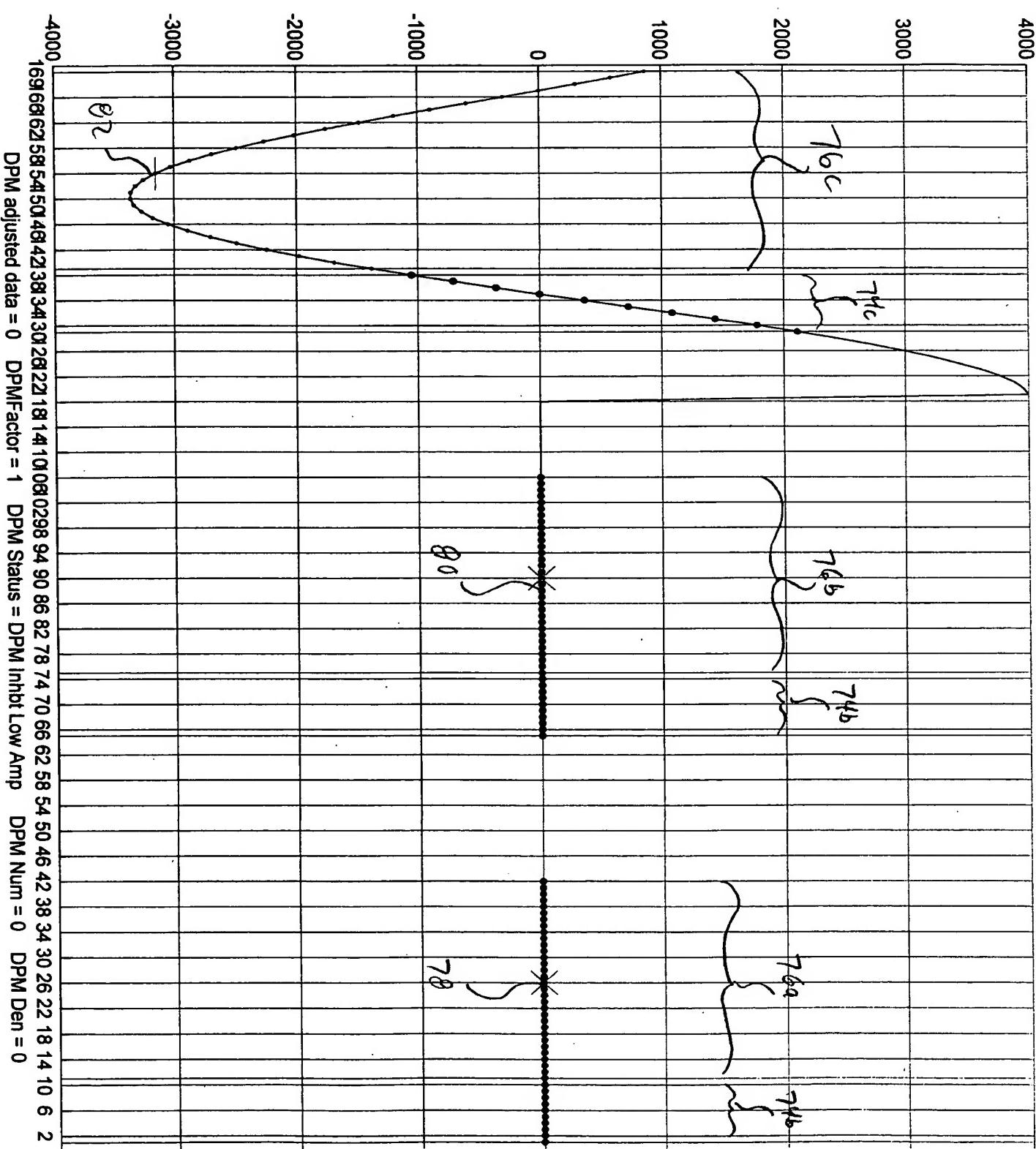
16966621585450464238343026221814100802989490868278747066625854504642383430262218141062
DPM adjusted data = 0 DPM Factor = 1 DPM Status = DPM span & center adjustingDPM Inhibit Low Amp DPM Num = 0 DPM Den = 0

Points Processed = 418 PlCnSwitch = -8 CausalSwitchLockedOut PastPoint = 1839 PresentPoint = 0 FuturePoint = 0



16968621585450484238343028221814100802989490868278747066625854504642383430262218141062
DPM adjusted data = 0 DPMFactor = 1 DPM Status = DPM span & center adjustingDPM Inhibit Low Amp DPM Num = 0 DPM Den = 0

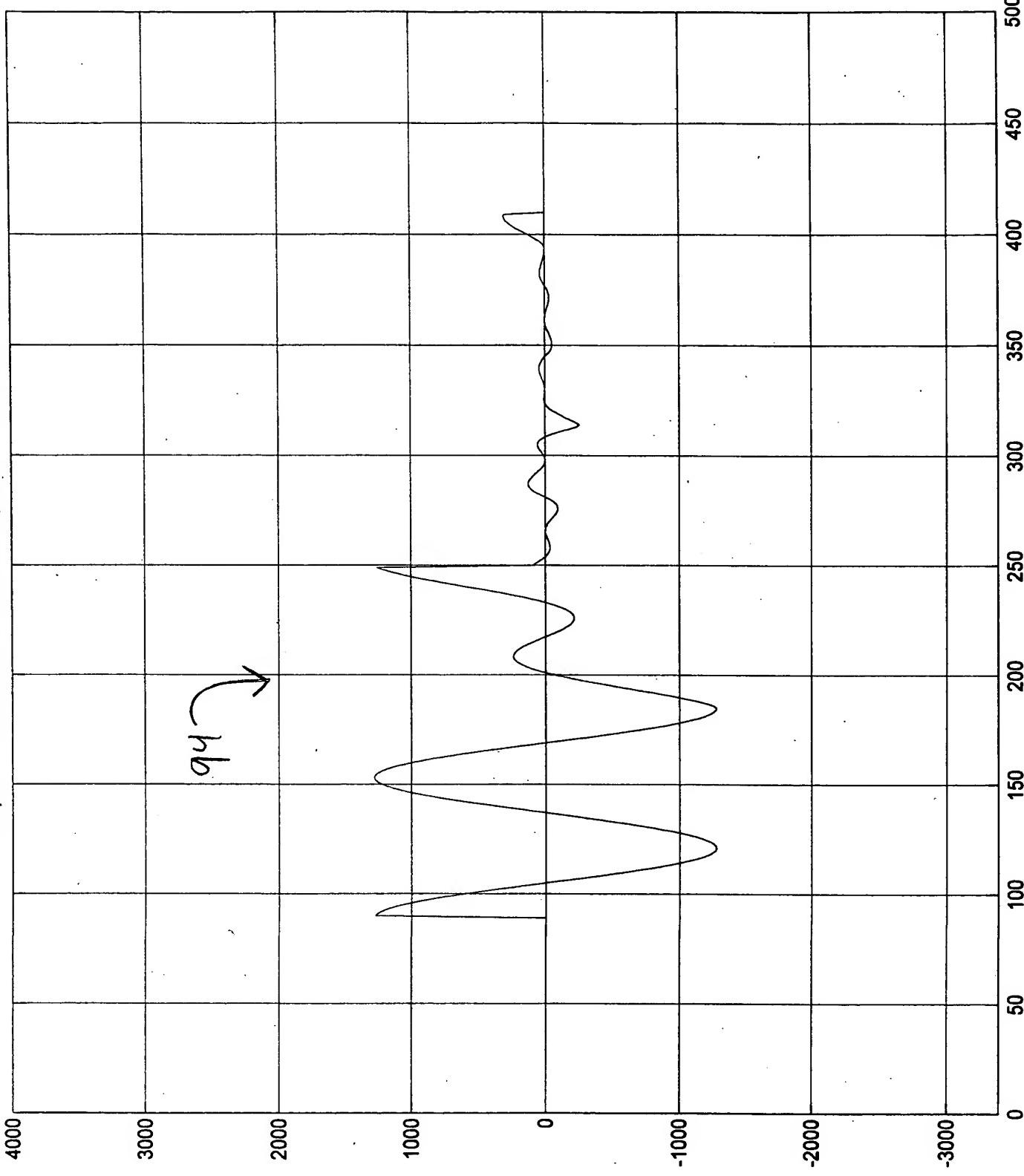
Points Processed = 438 PtCntSwitch = 17 CausalSwitchEnabled PastPoint = -3157 PresentPoint = 0 FuturePoint = 0



DPM adjusted data = 0 DPMFactor = 1 DPM Status = DPM Inhibit Low Amp DPM Num = 0 DPM Den = 0

Fig. 27

Output with causal/non-causal switching, but DPM only in the Past



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Output from full NC Switching and DPM

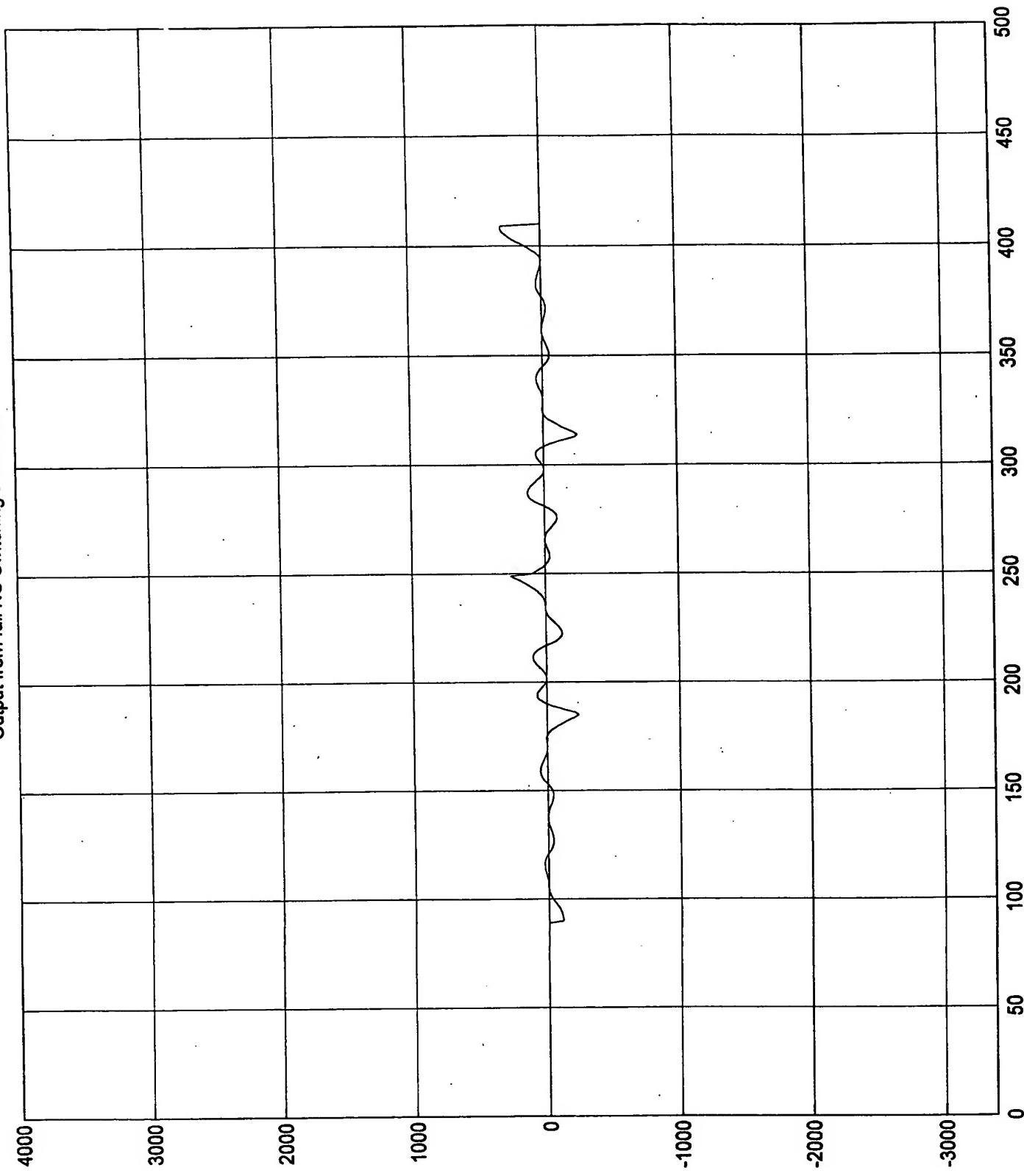


Fig. 29

✓ 100

SIGNATURE

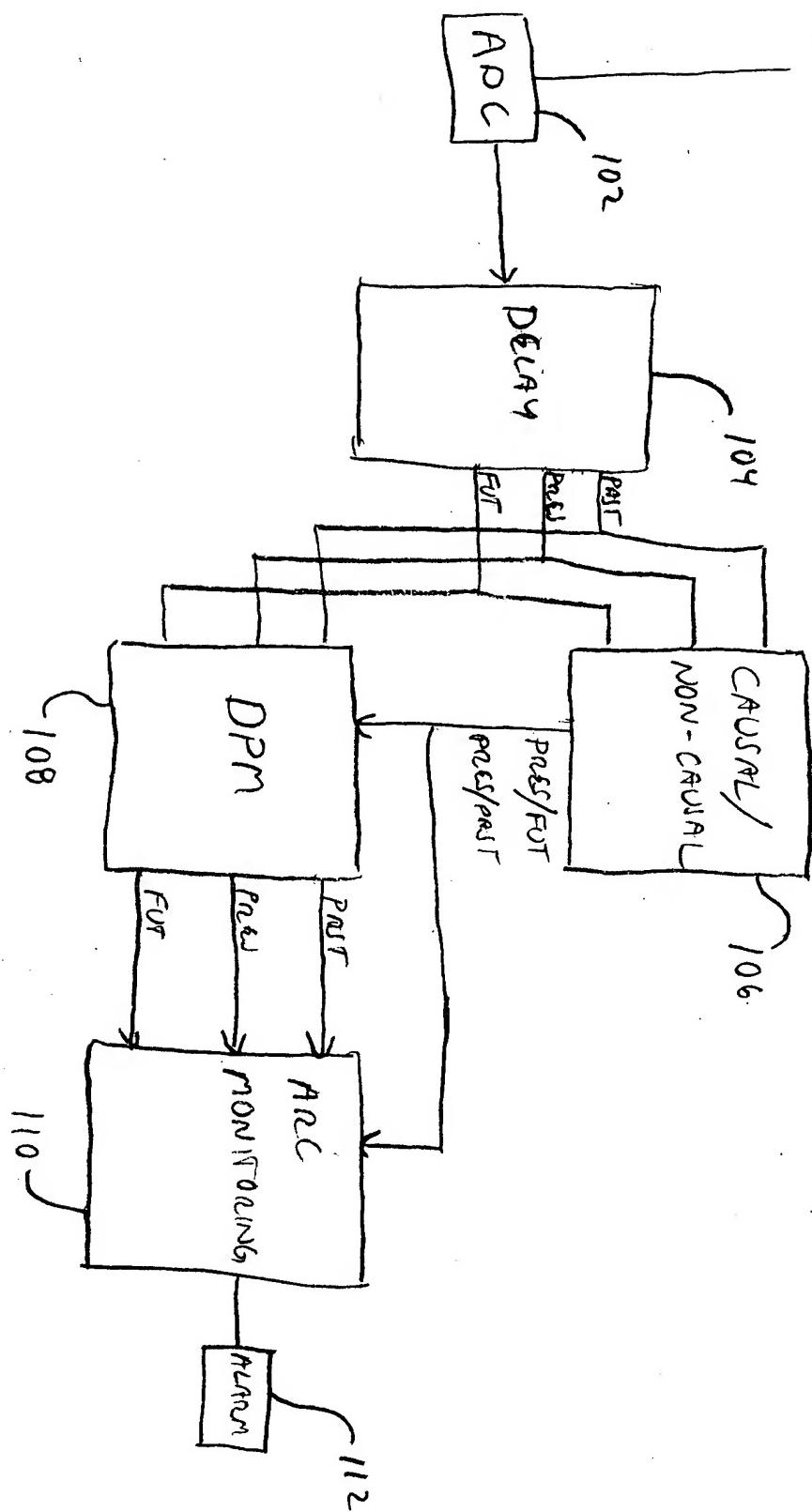


FIG. 30